



National Aeronautics and
Space Administration

John C. Stennis Space Center

Stennis Space Center, MS 39529-6000

SPR 8500.2 Rev. D-1
June 2019

COMPLIANCE IS MANDATORY

John C. Stennis Space Center Environmental Operations and Implementation Program Procedural Requirements

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Document History Log

Status/Change/ Revision	Change Date	Originator/Phone	Description
SPR 8500.2 Basic Note: The original history of the prior Directive has been retained here to provide clarity and for tracking and reference purposes.	10/22/04	Renay Nelson x-87384	Revalidated and corrected per NASA Rules Review/Changed References to reflect cancellations and revisions and corrected document numbers.
A	12/30/04	J. Gordon x-81416	Update various sections along with the addition of a section on Energy and Water Conservation.
B	10/03/08	J. Gordon x-81416	Update various sections of the document to accommodate the format requirements per SPR 1440.1. Added a section on Homeland Security per 6 CFR Part 27. Deleted Energy Program Responsibilities (prior Appendix C), which shall be incorporated into SPLN-8500-0002 per NASA Energy Manager.
C	11/03/13	J. Gordon x-81416	Throughout: added references to appropriate documentation, corrected SSC form numbers and titles; P.3: corrected document titles, added Executive Orders 13514 and 12580; P.4: added SCWI-8500-0017-ENV, SCWI-8500-0019-ENV, SWI-8500-0032-EMS, and SWI-8830-0002; replaced Historic Preservation Plan with SPLN-8500-0090; Chapter 1: clarified and/or added to all responsibilities; Chapter 2: renamed 2.1, inserted as 2.1.2 Other

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			<p>Considerations (Climate Change and GHG Emissions, and Encroachment) and renamed Specific Requirements 2.1.3; 2.2.2 (c) added Air Permit # 1000-00054; 2.3.2 (a) changed ‘community, transient’ to ‘community, non-transient’; (c) updated potable well information to include wells and water tanks from Area 9; 2.4.2 (a) added Wastewater Permit # MS0040797; added to Table 4 information regarding the requirement to obtain General Construction Storm Water Permit; 2.6.2 (b) added requirement to submit SSC Spill/ Release Report Form (SSC-696D) within 3 working days of discovery; 2.6.3 (c) updated status of CERCLA sites and included information on B3202 PCB site; (d) included information from 2012 5-year regulatory review; 2.7.2 (c) clarified conditions for no minimum quantity exemption at SSC; Table 7 (2.7.3) added 40 CFR 112 as reporting method; 2.8.4 (d) added requirement to submit Asbestos Work Approval Form (SSC-740); Table 8, changed frequency of notification of PCB activity from ‘annually’ to ‘as required’; 2.9.3 throughout-clarified requirements for Tier II submission and TRI reporting; (b) added hazardous material inventory is maintained electronically in HMIS; Table 9 following changes: report hazardous material inventory in HMIS, SARA Tier II Report-added to responsible party list and changed reporting method to electronic format, and changed Toxic Release Inventory reporting method to electronic format; 2.10.2 added (c); Table 12 updated responsible party for maintaining site inventory of radiation sources; 2.13.2 and 2.13.3-total revision of sections based on requirements of new HPO; Table 13</p>
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			updated notification requirement for surface and subsurface work; deleted requirement to inspect Logtown, Gainesville, Napoleon and Bayou LaCroix; clarified the description of activities affecting historic properties; 2.15.3 (a) added requirement to transport scrap metal from demolition to Landfill Recycling area; 2.16.2 (g) added Executive Order 13514; Table 16 clarified action/responsible party/reporting method for purchasing sustainable materials, and for requesting waivers to purchase non-compliant items; Appendix A updated Acronyms
D	9/26/18	Chelsea Boone x-82077	Revised various sections of the document to accommodate the requirements of SPR 1400.1, including: listing of NPRs moved from section P.3 to section P.4, definitions moved from Appendix B to Appendix A, and acronyms moved from Appendix A to Appendix B. Minor changes to text throughout, including: deleted Executive Orders (EO) that were revoked (e.g., EO 13148 and EO 13514); updated regulatory references, list of acronyms, and definitions; corrected SSC form numbers and titles; and replaced "FOSC" with "SOC", "EPA" with "USEPA"; "NASA HPO" with "NASA CRM"; and "NASA Environmental Management" with "NASA EHSO". Renamed section headings as follows: 1.4 to NASA Environmental and Health Services Office; 2.7.3 to Environmental Integrated Contingency Plan with Spill Prevention, Control and Countermeasure Plan; 2.9 to Hazardous Materials Management; 2.9.2 to Emergency Planning Action and Community Right-to-Know Act; 2.9.3 to Chemical Facility Safety and Security; 2.9.4 to Required Reporting; 2.15 to

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			<p>Management of Hazardous Coatings; 2.15.2 to Hazardous Coatings; and 2.15.3 to Hazardous Coatings Waste Disposal. Updated tables to reflect and/or clarify current requirements, frequency, and responsible parties to which they apply, including the following: actions associated with 2.1.2 regarding GHG reporting requirements added to Table 1; additional actions associated with air permitting and reporting included in Table 2; updated Table 5 in regards to location of training documentation associated with requirements of 2.5.3; updated Table 6 to reflect revisions to 2.6.2, 2.6.3, and 2.6.4 as referenced below, including addition of associated HAZWOPER training, LTOMP, and 5-year review requirements; updated Table 7 to reflect revisions to 2.7.2, as referenced below, including addition of associated inspection and training requirements as well as the notification requirements identified in 2.7.4(f); updated Table 8 in regards to location of training documentation; revised Table 10 to include training/certification requirements; updated Table 12 in regards to location of training documentation and to include requirements associated with disposition; revised Table 13 to identify notification prior to activities that alter or modify listed historic properties as a separate requirement; updated Table 15 to reflect revisions to Section 2.15 as referenced below, and included requirements associated with requests for sampling analysis and general awareness training; updated Tables 16 and 17 to reflect revisions to Sections 2.16 and 2.17 as referenced below.</p> <p>Additional revisions made within individual sections to reflect and/or clarify</p>
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			<p>current requirements and responsible parties, including: deleted requirements of 1.5(m) pertaining to designation of energy coordinators; updated 2.3.2(a) and (c) in regards to the number of water systems; number of wells and pumps; and applicable permit numbers; deleted 2.3.2(h) and added requirements as Section 2.3.3 “Specific Requirements”; requirements of 2.4.3(e) and (f) combined with 2.4.3(d); added requirements associated with industrial storm water discharges as revised 2.4.3(e) and deleted 2.4.3(f); requirements of 2.5.2(b) moved to 2.5.2(d) and additional requirements included as 2.5.2(b) and (c); updated references to generator classifications in 2.5.3(a); deleted 2.6.2 “Release Reporting” due to duplication of information provided in 2.7.4, revised numbering of subsequent sections accordingly; updated 2.6.2(c) and (d) to reflect current operations and 5-year review status; added 2.6.2(e) regarding LTOMP requirements; requirements of 2.7.2(c) moved to 2.7.2(e) and additional requirements included as 2.7.2(c) and (d); added 2.8.4(h) to address requirements associated with scrap metal; revised 2.9.2 through 2.9.4 to clarify requirements and responsible parties as applicable to reporting and/or notification requirements per EPCRA and CFATS regulations; updated Section 2.15 as necessary to reference requirements applicable to hazardous coatings, including lead, and hexavalent chromium, and cadmium; , and lead containing materials; updated Section 2.16 to reflect current regulations and Center-level requirements, including deletion of 2.16.2(g); and updated Section 2.17 to reflect current regulations and</p>
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			Center-level requirements, including deletion of 2.17.2(e).
D-1	6/5/2019	Bridget Moody x-81426	Administrative changes to Sections 2.8.2, 2.8.3, and 2.8.5 to clarify requirements as applicable to PCB and PCB-contaminated equipment.
Original History			
SPG 8500.2 Basic * See note above.	12/21/01	RA02/Ronald Magee X-87384	Initial Release

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PREFACE

P.1 PURPOSE

- a. This directive establishes procedural requirements for the National Aeronautics and Space Administration's (NASA) John C. Stennis Space Center (SSC) to recognize environmental considerations during the planning and execution of projects, programs, or institutional operations in order to meet Federal, state, and local environmental regulatory requirements.
- b. This directive provides an overview of the general compliance requirements and delineates responsibility for actions required prior to initiating activities which have the potential to impact environmental media, in accordance with the National Environmental Policy Act (NEPA). Notification and/or coordination through the NASA Environmental and Health Services Office (EHSO) is required for all activities that may either affect, or potentially affect, land, water, groundwater or air resources; produce either hazardous or non-hazardous waste; utilize either SSC's drinking water or wastewater collection and treatment system; or require the use of hazardous materials or storage of petroleum, oils, or lubricants (POL).

P.2 APPLICABILITY

- a. This Stennis Procedural Requirements (SPR) is applicable to all NASA personnel at SSC.
- b. This SPR is applicable to all resident agencies, commercial customers, contractors, concessionaires, and their employees performing work at SSC, to the extent specified in their respective contract or agreement. SSC contracting officers and agreements managers are strongly encouraged to ensure that reference is made to this SPR, and the requirements stated further herein in this SPR are applicable, in all contracts and agreements with these entities (resident agencies, etc.) There is a presumption that all contracts and agreements should contain a reference to this SPR, and specifically state that the requirements of this SPR are applicable to the respective contractor, partner, resident agency, customer or concessionaire.
- c. This SPR is applicable to all programs, projects, institutional operations, and activities at SSC.

P.3 AUTHORITY

Referenced documents are assumed to be the latest revision unless otherwise specified.

- a. Executive Order 12114, *Environmental effects abroad of major Federal actions*
- b. Executive Order 12580, *Superfund Implementation*

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- c. Executive Order 13287, *Preserve America*
- d. Executive Order 13221, *Energy Efficient Standby Power Devices*
- e. Executive Order 13834, *Efficient Federal Operations*

Note: A complete listing of all applicable Federal and state regulations is provided in Appendix C for reference purposes.

P.4 APPLICABLE DOCUMENTS

- a. NPR 8530.1, *NASA Sustainable Acquisition*
- b. NPR 8553.1, *NASA Environmental Management System*
- c. NPR 8570.1, *NASA Energy Management Program*
- d. NPR 8580.1A, *Implementing the National Environmental Policy Act and Executive Order 12114*
- e. NPR 8590.1, *NASA Environmental Compliance and Restoration Program*
- f. SPR 8500.1, *SSC Environmental Management System Procedural Requirements*
- g. SCWI-8500-0001-EMS, *Site-wide Collection, Reporting and Management of Air Emission Data*
- h. SCWI-8500-0003-ENV, *SSC Sustainable Acquisitions Plan*
- i. SCWI-8500-0004-ENV, *SSC Hazardous Material, Hazardous Waste, and Solid Waste Plan*
- j. SCWI-8500-0017-ENV, *SSC Pollution Prevention Plan*
- k. SCWI-8500-0018-ENV, *SSC Lead and Other Hazardous Coatings Hazard Control Program*
- l. SCWI-8500-0019-ENV, *SSC Asbestos Hazard Control Plan*
- m. SCWI-8500-0020-ENV, *SSC Environmental Integrated Contingency Plan with Spill Prevention, Control, and Countermeasure Plan*
- n. SCWI-8500-0026-ENV, *SSC Environmental Resources Document*
- o. SPLN-8500-0069, *Storm Water Pollution Prevention Plan*

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- p. SPLN-8500-0088-ENV, *Long Term Operational and Monitoring Plan at CERCLA Sites*
- q. SPLN-8500-0090, *SSC Integrated Cultural Resources Management Plan*
- r. SWI-8500-0032-EMS, *SSC Regulatory Inspections, Notifications, and Internal Compliance Audits*
- s. SCWI-8700-0004, *Ionizing Radiation Program*
- t. SCWI-8700-0005, *Nonionizing Radiation Program*
- u. SWI-8830-0002, *SSC Landfill Operations Plan*

P.5 MEASUREMENT/VERIFICATION

Compliance with the requirements contained in this document shall be verified through audits, observations, and self-assessments.

P.6 CANCELLATION

SPR 8500.2 Rev. C dated November 26, 2013.

Signature on File

Richard J. Gilbrech, Ph.D.
Director

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CHAPTER 1. RESPONSIBILITIES

1.1 Center Director

- a. The Center Director is responsible for environmental compliance, including signing of all permit applications for the various environmental media and all other compliance documents that function to commit the Government to meet a specific set of conditions relative to environmental compliance.
- b. Where applicable with Federal and state regulations, the Center Director may designate a duly authorized representative for signature authority on all compliance requirements and notifications.

1.2 Director, Center Operations Directorate

The Director, Center Operations Directorate, is responsible for administration of environmental compliance activities. This includes signature authority as the duly authorized representative for environmental reports and transmittal letters submitted to regulatory agencies per regulation and/or permit requirements.

1.3 Environmental Officer

The SSC Environmental Officer (EO) is responsible for the following:

- a. Overseeing environmental compliance activities and interfacing with environmental regulatory representatives regarding environmental issues at SSC. This includes signature authority for environmental reports and transmittal letters submitted to regulatory agencies per regulation and/or permit requirements and other activities at SSC that are within the scope of the Environmental Management System (EMS).
- b. Advising senior management and NASA Headquarters on issues of noncompliance and initiating and/or recommending corrective action as required. The SSC Environmental Officer has cease and desist authority over any activity at SSC not in compliance with environmental laws and regulations.
- c. Serving as Chair of the Environmental Working Group.

1.4 NASA Environmental and Health Services Office

NASA Environmental and Health Services Office (EHSO) personnel are responsible for the following:

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- a. Providing the management and system integration of all environmental activities.
- b. Maintaining an EMS that meets the requirements of NPR 8553.1. The EMS assures the proper handling and disposal of hazardous wastes and that compliance reports and other documentation are maintained and submitted to regulatory authorities as appropriate.
- c. Providing for the management and/or maintenance of the hazardous waste cleanup sites, natural resources such as timber, water and wetlands, and cultural resources such as the towns of Gainesville and Logtown, and the historic Apollo-era rocket engine test stands.
- d. Providing a system of environmental review of all activities at SSC in accordance with NEPA. This is inclusive of the preparation and management of SCWI-8500-0026-ENV, *SSC Environmental Resources Document*, and project-specific NEPA documentation, including the Preliminary Environmental Survey (PES), Record of Environmental Consideration (REC), Environmental Assessment (EA), and Environmental Impact Statement (EIS).
- e. Providing a system of internal compliance audits to assure environmental compliance of activities at all levels throughout SSC. This includes the audit of resident agencies, commercial customers, contractors, and concessionaires to safeguard SSC from any adverse impacts resulting from their activity.
- f. Providing management for the development of NASA-maintained environmental permit applications for compliance with Federal, state, and local regulations, as well as providing the negotiations necessary for the acquisition of these permits.
- g. Providing technical leadership to the Environmental Working Group that is comprised of representatives from NASA Directorates, resident agencies, commercial customers, contractors, and concessionaires. The SSC Environmental Officer serves as the chair of the Environmental Working Group.
- h. Providing external interfaces for SSC relative to environmental subject matter.
- i. Planning and justifying the necessary resources to assess, monitor, evaluate and control, through the appropriate channels, SSC's environmental quality on a continuing basis.

1.5 NASA Directorates, Resident Agencies, Contractors, Commercial Customers, and Concessionaires

The individual NASA Directorates, resident agencies, contractors, commercial customers, and concessionaires including those that are located temporarily at SSC, if deemed necessary based on operational processes shall:

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- a. Designate an Environmental Coordinator to be a representative on the Environmental Working Group, if the organization uses hazardous materials or otherwise has the potential to affect the environment.
- b. Continually improve environmental and energy performance in accordance with a series of Executive Orders, including Executive Order 13834, *Efficient Federal Operations*, Memoranda of Understanding, and other guidance.
- c. Correct all deficiencies that are identified during an internal compliance audit and provide written documentation of the corrective actions taken.
- d. Ensure that personnel are properly trained to engage in an environmentally regulated activity.
- e. Provide secondary containment for bulk oil storage containers, including aboveground storage tanks, drums, and/or totes in which POL are stored. SSC is a bulk oil storage facility where transfer operations occur; therefore, there are no size exemptions for secondary containment requirements.
- f. Submit an annual hazardous material inventory to NASA EHSO by close of business January 10 of each year. Safety Data Sheets (SDSs) for all products used at SSC shall be maintained and available for inspection.
- g. Notify NASA EHSO of any new activity or changes to existing operations/activities via submittal of a PES, in order that environmental considerations may be included in the early planning phase of new projects or operational changes.
- h. Provide funding in advance and use the appropriate mechanism (e.g., Service Request, Task Order Initiation System, or other contractor systems) for accessing NASA contracts to utilize NASA resources for all required environmental impacts associated with specific activities or projects, including the consultation for development of environmental permits, the disposition of hazardous waste, wetland impact mitigation and survey for cultural resources, if deemed necessary. If required, funding is also necessary to modify NASA held permits and/or to develop the appropriate NEPA documentation prior to proceeding with a project.
- i. Meet their respective agency NEPA requirements. NASA will serve as the cooperating agency when developing EAs or EISs, as applicable.
- j. Provide for proper management of hazardous waste satellite accumulation areas per regulatory guidance. Obtain a U.S. Environmental Protection Agency (USEPA) Hazardous Waste Identification (ID) Number and coordinate the disposal of hazardous waste with Stennis Operating Contractor (SOC) Environmental Services using Waste Removal Form

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(SSC-696F). Hazardous waste manifests must be signed by the generator or their representative.

- k. Obtain a wetland impact authorization permit prior to conducting land preparation activities and submit a Timber Removal Request (Form SSC-739) to NASA EHSO for the removal of marketable timber, which is considered a government resource. Early coordination will minimize potential construction delays.
- l. Coordinate burn activities with NASA EHSO. Stumps and other debris from land clearing operations may be ground or chipped at or near the construction site in an area covered by wetland permitting unless the SSC Environmental Officer approves an alternative.

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CHAPTER 2. PROCEDURAL REQUIREMENTS

2.1 Environmental Impact Avoidance and Other Considerations

2.1.1 Applicable Laws and Regulations

Requirements of the National Environmental Policy Act (41 USC § 4321 to 4370c) and 40 CFR 1500-1517 shall be followed in the performance of environmental impact avoidance activities at SSC. Section 102 of the National Environmental Policy Act (NEPA) requires that all Federal agencies consider the environmental effects of proposed actions. In addition, Section 103 specifies that Federal agencies adopt administrative regulations, policies, and procedures to ensure decisions are made in accordance with the purposes and provisions of NEPA.

2.1.2 Other Considerations

Climate Change and Greenhouse Gas (GHG) Emissions

A greenhouse gas (GHG) is a gas in the Earth's atmosphere that prevents heat from escaping into space, potentially resulting in climate change as the Earth's surface temperature increases above past levels. GHG emissions result primarily from the combustion of fossil fuels. Facilities with stationary combustion sources must determine applicability of the USEPA's Greenhouse Gas Reporting Program, as promulgated in 40 CFR Part 98, which requires reporting from facilities that meet certain criteria.

Ongoing efforts to reduce GHG emissions resulting from Center activities include implementation of energy-efficient infrastructure; use of innovative approaches and renewable energy; and identification of new strategies to minimize GHG emissions across operations. In addition to mitigating GHG emissions, the effects of climate change (e.g., increased temperature, changes in timing and volume of precipitation, ecological effects, and sea-level rise) must also be considered. For example, drainage culverts may need to be resized to accommodate more intense rainfall events.

Encroachment

The term "encroachment" encompasses a broader range of risks than the conventional concept relating to real estate competition such as development to a fence line. More broadly applied, this includes the identification and evaluation of current and future risks associated with development on the Center as it relates to the Center's ability to meet mission requirements for NASA. Numerous issues that could affect SSC's ability to carry out mission responsibilities have been identified and are discussed in detail in SCWI-8500-0026-ENV, *SSC Environmental Resources Document*.

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2.1.3 Specific Requirements

- a. NASA, resident agencies, commercial customers, contractors, and concessionaires shall submit a PES (Form SSC-696M) prior to beginning any program or project, construction, or changes to operational processes. This process allows NASA EHSO to review proposed site activities and make recommendations to ensure adequate protection of the environment.
- b. If development of an EA or EIS is required, the implementing agency or commercial contract shall be responsible for funding and implementation.
- c. NASA EHSO shall have to concur on a “Finding of No Significant Impact” or the “Record of Decision” for all projects located at SSC.
- d. NASA, resident agencies, commercial customers, contractors, and concessionaires shall perform the specific actions outlined in Table 1.

Table 1 - Required Actions under the National Environmental Policy Act

§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.1.2	Determine applicability and meet reporting requirements of the USEPA's Greenhouse Gas Reporting Program	NASA EHSO and SOC Environmental Services; Resident Agencies, Commercial Customers, and Concessionaires	In accordance with 40 CFR 98	As required
2.1.3	Record of Environmental Consideration	NASA Environmental Officer or designee	Letter from SSC EO to PES originator	As required
2.1.3	Environmental Assessment	NASA, Resident Agencies, Commercial Customers, and Concessionaires	Publication and Public Comment	As required
2.1.3	Environmental Impact Statement	NASA, Resident Agencies, Commercial Customers, and Concessionaires	Publication and Public Comment	As required
2.1.3	Preliminary Environmental Survey must be furnished during the planning of construction activities or changes to operational processes	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	PES to NASA EHSO	New projects by 30% design review

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2.2 Air Pollution Control

2.2.1 Applicable Laws and Regulations

Requirements of the Clean Air Act (42 USC § 7401 to 7671q); 40 CFR 50-98; and Mississippi Air Regulations shall be followed in the performance of air pollution control activities at SSC.

2.2.2 General Requirements

- a. The USEPA has authorized the Mississippi Department of Environmental Quality (MDEQ) as the air pollution permitting authority and compliance agency for the State of Mississippi.
- b. NASA and NASA contractors shall coordinate any activities that will emit or have the potential to emit air pollutants with NASA EHSO to ensure the activity complies with the Clean Air Act (CAA) and NASA-maintained Title V Operating Permit Numbers 1000-00005 and 1000-00054.
- c. All other resident agencies, commercial customers, concessionaires, and their contractors shall ensure all air emissions sources are properly permitted and operated in compliance with Federal, state, and local air quality regulations.

2.2.3 Specific Requirements

NASA, resident agencies, commercial customers, contractors, and concessionaires shall perform the specific actions outlined in Table 2.

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Table 2 - Required Actions under the Clean Air Act

§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.2.2	Report any non-permitted source of air emissions that is operated in support of NASA activities	NASA and NASA Contractors	Memo or letter to NASA EHSO	Immediately
2.2.2	Notification of plans to operate and/or modify (including relocation) equipment or any other activity supporting NASA operations that may generate air emissions	NASA and NASA Contractors	PES to NASA EHSO	As soon as requirements are identified
2.2.2	Application to operate air emission sources operated in support of resident agency, commercial customer, or concessionaire operations	Resident Agencies, Commercial Customers, Concessionaires, and Contractors, as applicable	Application to MDEQ	As required
2.2.2	Application to modify or renew NASA-maintained Title V Operating Permits or to acquire a new permit in support of NASA SSC activities	NASA EHSO and SOC Environmental Services	Application to MDEQ	As required, at least every 5 years
2.2.2	Monitoring and measurement of air emissions associated with NASA activities	NASA and NASA Contractors	According to SCWI-8500-0001-EMS, <i>SSC Site-Wide Collection, Reporting, and Management of Air Emission Data</i>	Variable
2.2.2	Reporting of air emissions data and compliance status	NASA EHSO and SOC Environmental Services	SSC format to MDEQ	Variable, per permit and/or regulatory requirements

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2.3 Potable Water

2.3.1 Applicable Laws and Regulations

Requirements of the Safe Drinking Water Act (42 USC § 300f to 300j-26); 40 CFR 141-143; and Title 49, Chapter 17 Mississippi Safe Drinking Water Law shall be followed in the performance of potable water activities at SSC.

2.3.2 Safe Drinking Water Requirements

- a. SSC currently operates one water system to support the various operations that are located at the Center. The distribution of potable water at SSC is implemented in accordance with the Mississippi Department of Health (MSDH) Permit Number MS 230015 (community/non-transient water system). Therefore, we must adhere to the Safe Drinking Water Act (SDWA) requirements.
- b. The SSC Environmental Officer shall ensure that the potable water system complies with the SDWA as prescribed by the MSDH.
- c. Five large capacity deep wells and associated pumps, chlorinators, four elevated storage tanks, automatic controls, and a distribution system supply potable water to SSC's administrative support area, test area, and Area 9. The wells are operated under groundwater withdrawal permits issued by the State of Mississippi. The permit numbers are MS-GW-01910, MS-GW-16593, MS-GW-16620, MS-GW-02614, and MS-GW-02615. Details of the wells and permits are described in SCWI-8500-0026-ENV, *SSC Environmental Resources Document*.
- d. Test records for the quality of potable water shall be maintained by NASA EHSO.
- e. Annually, a Consumer Confidence Report (CCR) shall be published to inform water supply users of the quality of the water.
- f. NASA, resident agencies, commercial customers, contractors, and concessionaires shall coordinate any activities that utilize or plan to utilize water with NASA EHSO and the SOC Environmental Systems Operators.
- g. The location of any operation within 500 feet of any wellhead shall be evaluated to safeguard these areas from potential contaminants in accordance with 40 CFR 141-143.

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2.3.3 Specific Requirements

NASA, resident agencies, commercial customers, contractors, and concessionaires shall perform the specific actions outlined in Table 3.

Table 3 - Required Actions under the Safe Drinking Water Act

§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.3.2	Notification of any activity that creates or changes demand on the SSC water supply or that will be located within 500 feet of wellheads.	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	PES to NASA EHSO	As required
2.3.2	Notification of tie-ins to the existing potable water system	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	PES to NASA EHSO and electronic submission of contract deliverables	As required
2.3.2	Application for permit to withdraw waters of the State for beneficial use	NASA EHSO and SOC Environmental Services	Form provided by MSDH	Prior to water use
2.3.2	Drinking Water, Microbiological Analysis	NASA EHSO, Laboratory Service Contractor (LSC)	Form provided by MSDH	Monthly
2.3.2	Public Health Water Supply Survey	NASA EHSO and SOC Environmental Services	Form provided by MSDH	Annual
2.3.2	Notification of Public Water Supply Responsible Officials & Operators	NASA EHSO and SOC Environmental Services	Form provided by MSDH	Annual
2.3.2	State Water Usage Report	NASA EHSO and SOC Environmental Services	Form provided by MSDH	Annual
2.3.2	Industrial Water System Usage Report	NASA EHSO and SOC Environmental Services	Form provided by MDEQ	Annual

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2.4 Water Pollution Control

2.4.1 Applicable Laws and Regulations

Requirements of the Coastal Zone Management Act (16 USC § 1451 to 1464); Clean Water Act (33 USC § 1251 to 1387); 33 CFR 322; 33 CFR 323; 33 CFR 330; 40 CFR 104-149; Executive Order 11988, *Floodplain Management*; and Executive Order 11990, *Protection of Wetlands* shall be followed in the performance of water pollution control activities at SSC.

2.4.2 Wastewater

- a. Section 313(a) of the Clean Water Act (CWA) requires Federal facilities to comply with all Federal, state, interstate, and local pollution control requirements. Additional wastewater discharges shall be permitted in accordance with the National Pollution Discharge Elimination System (NPDES) program. NASA is currently authorized to discharge wastewater under NPDES Permit Numbers MS0021610 and MS0040797.
- b. NASA EHSO shall maintain compliance with these permits. Permit modification may be required for any new activity or process which would create a new point source of wastewater, increase the volume of an existing discharge, or alter the composition of an existing discharge.
- c. SSC organizations, including NASA, resident agencies, commercial customers, contractors, and concessionaires whose activities involve the generation or disposal of industrial wastewater shall at all times properly operate and maintain all facilities and systems of collection, treatment, and control, which are used to achieve compliance with the existing NPDES permits.

2.4.3 Storm Water

- a. Land-clearing or soil-disturbing activities, including those associated with construction projects, have the potential to result in storm water erosion of surface soils. Best management practices shall be implemented to minimize erosion that could affect the quality of storm water discharge from the site. Because storm water erosion of surface soils may have adverse impacts on surface water bodies, physical barriers (silt fences, hay bales, etc.) are required during construction.
- b. NASA, resident agencies, commercial customers, contractors, and concessionaires shall submit a PES to NASA EHSO for all projects involving land-clearing and/or other soil-disturbing activities.

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- c. NASA EHSO when deemed necessary shall provide a REC that will require the resident agency, commercial customer, or concessionaire to apply for a construction storm water permit from MDEQ. In addition, the resident agency, commercial customer, or concessionaire shall be responsible for submitting all required documentation, including but not limited to the Notice of Intent and Storm Water Pollution Prevention Plan (SWPPP), depending on the size of the project. Sites that require coverage shall be inspected weekly and inspections shall be recorded on the appropriate form. The completed inspection forms shall be maintained and readily available for review until the project is completed and the complete package is submitted to MDEQ with the Notice of Termination.
- d. For NASA projects, the NASA contractor shall apply for a construction storm water permit from MDEQ. In addition, the NASA Contractor shall be responsible for submitting all required documentation, including but not limited to the Notice of Intent, SWPPP, and/or application to modify the existing NPDES permit(s), depending on the size and nature of the project. Sites that require coverage shall be inspected weekly and inspections shall be recorded on the appropriate form. The completed inspection forms shall be maintained and readily available for review until the project is completed and the complete package is submitted to MDEQ with the Notice of Termination.
- e. Depending on the nature of the project, storm water discharges from industrial activities at SSC may be authorized under NPDES Permit Numbers MS0021610 and MS0040797. Inspections shall be conducted in accordance with SPLN-8500-0069, *SSC Storm Water Pollution Prevention Plan*. The completed inspection forms shall be maintained onsite and submitted to MDEQ annually in accordance with regulatory requirements.

2.4.4 Wetlands

- a. The U.S. Army Corps of Engineers (USACOE) considers a large portion of both the SSC Fee Area and the SSC Buffer Zone jurisdictional wetlands due to the presence of hydric soils and hydrophytic vegetation. A map showing the potential SSC wetland areas is provided in SCWI-8500-0026-ENV, *SSC Environmental Resources Document*. A permit is usually required for any work disturbing a wetland or waterway.
- b. A PES shall be submitted to NASA EHSO prior to beginning land or vegetation clearing, especially for projects that may involve dredging, filling, or tree removal.
- c. Computer-aided design drawings shall be submitted with the PES, clearly indicating the locations of proposed development.
- d. If any such proposed project impacts an area officially designated as a wetland, NASA EHSO shall submit a wetland permit application to the USACOE.

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- e. An analysis of alternatives and public notice of proposed actions shall be completed prior to approval for projects with floodplain or wetlands impact.
- f. Mitigation will usually be required for all wetland impacts and these costs shall be estimated and included in the project's design cost.

2.4.5 Specific Requirements

NASA, resident agencies, commercial customers, contractors, and concessionaires shall perform the specific actions outlined in Table 4.

Table 4 - Required Actions under the Clean Water Act

§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.4.2	Notification to and approval from NASA EHSO prior to initiating any discharge from operations	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	PES to NASA EHSO	As required
2.4.2	Application to modify NPDES permit due to a new activity or process which would increase the volume or alter the composition of an existing discharge	NASA EHSO and SOC Environmental Services	Permit Modification Application to MDEQ	As required
2.4.2	National Pollutant Discharge Elimination System Discharge Monitoring Report	NASA EHSO and LSC	Form provided by MDEQ	Monthly
2.4.3	Notification of proposed construction or other land-clearing or other soil-disturbing activities	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	PES to NASA EHSO	Prior to any land-clearing or soil-disturbing activities

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§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.4.3	General Construction Storm Water Permit and associated documentation, including but not limited to Notice of Intent, SWPPPs, and Notice of Termination	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	Application to MDEQ with courtesy copy of package to NASA EHSO	Prior to any land-clearing or soil-disturbing activities, as needed
2.4.3	Construction Storm Water Inspections	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	MDEQ form, to be maintained with SWPPP and courtesy copy provided to NASA EHSO	Weekly
2.4.3	Application to modify NPDES permit due to a new activity or process which impacts industrial storm water discharges	NASA EHSO and SOC Environmental Services	Permit Modification Application to MDEQ	As required
2.4.3	Notification to obtain NPDES coverage for industrial storm water discharges, as required per REC	Resident Agencies, Commercial Customers, Contractors, and Concessionaires, as required	Notification to MDEQ	As required
2.4.3	Update NASA-maintained SWPPP	SOC Environmental Services	Written Plan/ TechDoc	As needed
2.4.3	Comprehensive Inspection Reports, SWPPP	NASA EHSO, SOC Environmental Services, and LSC as necessary	Form provided by MDEQ	Annual

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§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.4.4	Wetland Determination	NASA EHSO and SOC Environmental Services	Written Report by Wetland Specialist	Prior to any land-clearing activity
2.4.4	Notification of activities involving dredging, filling, or otherwise disturbing wetlands	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	PES to NASA EHSO	Prior to any wetland activity
2.4.4	Application to USACOE for wetland permit/authorization	NASA EHSO and NASA Contractors, as needed	Form provided by USACOE	Prior to any wetland activity
2.4.4	Request to remove timber	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	Form SSC-739 to NASA EHSO	Prior to timber removal

2.5 Waste Management

2.5.1 Applicable Laws and Regulations

Requirements of the Resource Conservation and Recovery Act (42 USC § 6901 to 6992k); 40 CFR 241; 40 CFR 255-273; Mississippi Hazardous Waste Regulations; and Mississippi Non-Hazardous Waste Management Regulations shall be followed in the performance of solid and hazardous waste management activities at SSC.

2.5.2 Solid Waste

- a. The Resource Conservation and Recovery Act (RCRA) was enacted to regulate all aspects of solid and hazardous waste management from generation to ultimate disposal. SSC operates and manages the onsite landfill in accordance with SWI-8830-0002, *SSC Landfill Operations Plan*. SSC shall minimize the volume of solid waste being placed in the onsite landfill in accordance with SCWI-8500-0017-ENV, *SSC Pollution Prevention Plan*. The MDEQ

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administers non-hazardous and hazardous waste programs, as well as the waste reduction/waste minimization program.

- b. The management of solid and hazardous waste at SSC shall be conducted in accordance with SCWI-8500-0004-ENV, *SSC Hazardous Material, Hazardous Waste, and Solid Waste Plan*.
- c. Composting operations are located at the onsite landfill. Materials accepted for composting include vegetative debris and other organic materials, as identified in the Authorization to Operate Pilot Composting Facility issued by MDEQ on February 25, 2014. Food waste is not accepted for composting at this time.
- d. SSC generates solid waste consisting of household-type wastes and non-hazardous industrial waste, which are disposed of onsite in the Class A sanitary landfill, Permit Number SW02401B0376. SSC shall maintain permits for the Class A Sanitary Landfill, Class II vegetative rubbish disposal sites (two active and one inactive wastewater treatment lagoons) and a General Permit Class II rubbish site (located adjacent to the landfill) for disposal of asphalt, stone, brick, mortar, concrete, and natural vegetative materials.

2.5.3 Hazardous Waste

- a. NASA SSC generates hazardous waste from its research and development operations, laboratories, instrument repair, and operations and maintenance functions. NASA SSC is classified as a large quantity generator and operates under USEPA ID Number MS2800090001. There are currently ten organizations located at SSC that are classified as either small quantity generators or very small quantity generators and operate under their own USEPA ID Number.
- b. The management of solid and hazardous waste at SSC shall be conducted in accordance with SCWI-8500-0004-ENV, *SSC Hazardous Material, Hazardous Waste, and Solid Waste Plan*.
- c. Resident agencies, commercial customers, contractors, and concessionaires that generate hazardous waste shall ensure that their activities are conducted in a manner that prevents the uncontrolled release of these wastes or materials into the environment.
- d. Temporary storage of hazardous wastes shall be permitted near their point of generation in "satellite accumulation areas" only under the following conditions:
 - 1. The containers shall be properly labeled.
 - 2. An individual who is properly trained shall be designated for managing the storage area.
 - 3. No more than 55 gallons of waste shall be stored in any single satellite accumulation area.

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4. Container(s) containing liquids shall be kept on a spill control pallet and grounded if the waste is flammable.
 5. The container(s) shall be compatible with the waste, in good condition, and kept closed except when adding or removing wastes.
 6. The Waste Removal Form (SSC-696F) shall be utilized when wastes require disposition.
- e. SOC Environmental Services shall provide technical consultation services to NASA, tenants, commercial customers, contractors, and concessionaires to aid in the characterization of hazardous wastes, development of waste stream profiles and to ensure that hazardous wastes are properly handled and stored.
 - f. NASA shall maintain a 90-day hazardous waste central accumulation area for wastes generated by NASA and its contractors.
 - g. A current 90-Day Hazardous Waste Accumulation Point Log (Form SSC-696N), which lists wastes generated by NASA and NASA contractors, shall be maintained in the 90-day hazardous waste central accumulation area.
 - h. The 90-day hazardous waste central accumulation area shall be inspected weekly using the 90-Day Hazardous Waste Accumulation Point Inspection Sheet (Form SSC- 696J), to ensure that the area, containers and required documents are in compliance.
 - i. Additionally, hazardous waste collection services shall be provided for NASA and its contractors through SOC Environmental Services.
 - j. Offsite disposal of hazardous waste shall be periodically coordinated through SOC Environmental Services, utilizing pre-approved treatment, storage, and disposal facilities.
 - k. Resident agencies, commercial customers, contractors, and concessionaires may make arrangements to include their hazardous wastes on these periodic shipments. However, they shall have a valid USEPA ID Number and store their hazardous wastes in their own designated areas until shipment arrangements are complete.

2.5.4 Specific Requirements

NASA, resident agencies, commercial customers, contractors, and concessionaires shall perform the specific actions outlined in Table 5.

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Table 5 - Required Actions under the Resource Conservation and Recovery Act

§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.5.2	Applications for landfill/rubbish site permit renewals, modifications, or waivers	NASA EHSO and SOC Environmental Services	Form provided by MDEQ or other correspondence	As required
2.5.3	Notification prior to initiating any activity or process which will result in a new hazardous waste stream	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	PES to NASA EHSO	As required
2.5.3	Set up new hazardous waste satellite accumulation storage area and train the responsible personnel	SOC Environmental Services	Documentation of training to be maintained by SOC Training Office	As required
2.5.3	Request for collection and disposal of hazardous material and/or hazardous waste	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	Form SSC-696F to SOC Environmental Services	As required
2.5.3	Update of the Hazardous Material, Hazardous Waste, and Solid Waste Management Plan	NASA EHSO and SOC Environmental Services	Written Plan/ TechDoc	As required
2.5.3	90 Day Hazardous Waste Accumulation Point Waste Log Sheet	SOC Environmental Services	Form SSC- 696N	Keep updated at all times
2.5.3	90 Day Hazardous Waste Accumulation Point Inspection Sheet	SOC Environmental Services	Form SSC- 696J	Weekly

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§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.5.3	Waste Stream Profile Review	NASA EHSO and SOC Environmental Services	SSC Format	Quarterly, or as required
2.5.3	Annual Hazardous Waste Activities Report	NASA EHSO and SOC Environmental Services; Resident Agencies, Commercial Customers, Contractors, and Concessionaires, as applicable	Form provided by MDEQ	Annually
2.5.3	Offsite treatment, storage, and disposal facility audits	SOC Environmental Services	Written report to NASA EHSO	Annually
2.5.3	Update employee training for hazardous material and hazardous waste handlers	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires, as applicable	Documentation of training to be maintained by individual organization	Annually
2.5.3	Resource Conservation & Recovery Act (RCRA) Training	NASA EHSO and SOC Environmental Services; Resident Agencies, Commercial Customers, Contractors, and Concessionaires, as applicable	Documentation of training to be maintained by individual organization	Annually
2.5.3	Department of Transportation (DOT) Hazardous Materials Training	NASA EHSO and SOC Environmental Services; Resident Agencies, Commercial Customers, Contractors, and Concessionaires, as applicable	Documentation of training to be maintained by individual organization	Every 3 years

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2.6 CERCLA Clean Up Sites

2.6.1 Applicable Laws and Regulations

Requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (42 USC § 9601 to 9675); 40 CFR 300-374; and Executive Order 12580, *Superfund Implementation* shall be followed in the performance of environmental response and cleanup activities at SSC.

2.6.2 Investigation and Remediation Activities

- a. SSC has completed the investigation of potential historical spills, releases, and disposal incidents under a voluntary cleanup program through MDEQ using the CERCLA criteria. Section 120 of CERCLA as amended by SARA mandated that the USEPA establish a "docket," or listing, of Federal facilities where hazardous waste has been generated and/or stored, treated or disposed of in the past. Although SSC has not been listed as a CERCLA facility, NASA has taken and shall continue to take a proactive approach to investigate areas that may have been impacted by historical releases.
- b. Under the CERCLA site investigation process, the first step involves conducting a Preliminary Assessment (PA) to determine whether or not further investigation is warranted. Forty sites were reviewed in the PA. Twenty-six of these sites were found to be clean or to have localized contamination. In the latter case, NASA conducted cleanup activities and disposed of contaminated materials at approved facilities. Clean up activities included the closure of numerous rock/reed treatment systems and neutralization pits, as well as aboveground storage tank upgrades.
- c. Of the forty sites originally identified, thirty-one are No Further Action (NFA) sites, one is a proposed NFA site based on a risk-based closure evaluation which was accepted by MDEQ (Area D), one is a long-term monitoring site (Site 002), one is a potential cleanup site (Area H), and six are cleanup sites. The six cleanup sites are referred to as Clean Up Areas A, B, C, E, F, and G. Areas B, C, E, and G are in active remediation, and Areas A and F are in post remediation/monitored natural attenuation (MNA). Additionally, the polychlorinated biphenyl (PCB) site near building 3202 (B3202) was remediated and declared an NFA site in December 2016. Site remediation included removing contaminated water and soil, and leaving residual soil contamination in place.

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NASA will implement land use controls and restrict the land use at Area D and the B3202 PCB site by:

- Covering the soil where the residual contamination exists with concrete (B3202 PCB site);
 - Posting appropriate signage to provide instructions prior to digging in the area;
 - Revising the Master Plan to indicate the presence of residual contamination;
 - Restricting the use of the land; and
 - Revising the master drawings of the building to include a note and outline of the affected area.
- d. An extensive review of SSC's remediation program shall be conducted every five years by NASA and state regulatory entities. Reviews were conducted in November 2007, November 2012, and November 2017. The purpose of the review is to determine if current remediation technologies are effective; if changes to the remediation program are warranted; and if potential alternate/enhanced technologies are acceptable.
- e. NASA follows SPLN-8500-0088-ENV, *Long Term Operational and Monitoring Plan* (LTOMP) to monitor groundwater quality and treatment remedy effectiveness at the cleanup sites. The LTOMP is revised to incorporate changes to the remediation program that are required based on the results of 5-year regulatory reviews, to continue effective operation and maintenance of the groundwater treatment units, and/or to properly monitor the effectiveness of remediation. Changes to the LTOMP and/or the remediation program are discussed with and approved by MDEQ regulators.

2.6.3 Specific Requirements

NASA, resident agencies, commercial customers, contractors, and concessionaires shall perform the specific actions outlined in Table 6.

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Table 6 - Required Actions under CERCLA and SARA

§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.6.2	Notify NASA EHSO within 24 hours of discovery of a contaminated site	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	Verbal followed by written notification to NASA EHSO	As required
2.6.2	Notify NASA HQ and MDEQ of any newly discovered contaminated sites	NASA EHSO	Verbal followed by written notification	As required
2.6.2	Update the LTOMP	SOC Environmental Services and LSC	SSC format to NASA EHSO	Annually
2.6.2	Submission of updated LTOMP to MDEQ	NASA EHSO	Written report	Annually, as required
2.6.2	Training for Hazardous Waste Operations and Emergency Response [HAZWOPER, per 29 CFR 1910.120(e)]	NASA and NASA Contractors	Documentation of training to be maintained by individual organization	Annually
2.6.2	Present 5-year review to MDEQ	NASA EHSO, SOC Environmental Services and LSC	Presentation/SSC format	Every 5 years

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2.7 Spill Prevention and Response

2.7.1 Applicable Laws and Regulations

Requirements of the Oil Pollution Act (33 USC § 2701 to 2761); Federal Water Pollution Control Act (33 USC § 1251 to 1387); Comprehensive Environmental Response, Compensation, and Liability Act as amended by the Superfund Amendments and Reauthorization Act (42 USC § 9601 to 9675); 40 CFR 110-114; 40 CFR 302; and 40 CFR 355 shall be followed in the performance of spill prevention and response activities at SSC.

2.7.2 Spill Prevention, Control, and Countermeasures

- a. SSC is classified as an on-shore facility, as defined in 40 CFR 112. SSC maintains a *Spill Prevention, Control, and Countermeasure Plan* (SPCC Plan) because bulk storage facilities and minor transfer operations could, in the event of an accident, be reasonably expected to discharge oil in harmful quantities into or upon the navigable waters of the United States or adjoining shorelines. The SPCC Plan is included in SCWI-8500-0020-ENV, *SSC Environmental Integrated Contingency Plan with Spill Prevention, Control, and Countermeasure Plan (SSC EICP w/ SPCC Plan)*. The SPCC Plan provides information on all bulk oil storage (aboveground and underground) and transfer facilities, and the various measures that are in place to prevent and/or control releases.
- b. All SSC organizations, including NASA, resident agencies, commercial customers, contractors, and concessionaires, shall provide secondary containment (double-walled preferred) for all aboveground bulk oil storage tanks that are used to store POL or other liquids that would be considered pollutants in the event of an accidental release.
- c. All SSC organizations, including NASA, resident agencies, commercial customers, contractors, and concessionaires, shall perform inspections of all bulk oil storage and transfer facilities. Inspections are to be performed according to SCWI-8500-0020-ENV, *SSC EICP w/ SPCC Plan*. Records of inspections shall be maintained onsite and shall be submitted quarterly to SOC Environmental Services.
- d. All SSC organizations, including NASA, resident agencies, commercial customers, contractors, and concessionaires, shall ensure that all oil-handling personnel are trained at least annually in accordance with 40 CFR 112. Training records shall be maintained onsite and available for review.
- e. Due to the large quantities of POL at SSC, there shall be no minimum quantity exemptions for aboveground storage tanks where spills or releases may reasonably be expected to reach navigable waters.

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2.7.3 Environmental Integrated Contingency Plan with Spill Prevention, Control, and Countermeasure Plan

- a. SCWI-8500-0020-ENV, *SSC EICP w/ SPCC Plan* is intended to delineate responsibilities, identify facilities, and establish procedures relevant to preparing for and responding to releases of oil and/or hazardous materials. This includes hazardous material incidents involving fire or explosion, or the imminent threat thereof.
- b. The procedures in SCWI-8500-0020-ENV, *SSC EICP w/ SPCC Plan* shall apply to all organizations and their employees performing work at SSC, including NASA, resident agencies, commercial customers, contractors, and concessionaires.
- c. Each organization shall be responsible for training employees regarding their responsibilities in the case of a release or spill. At a minimum, each employee should be aware of the hazards associated with materials that they work with, and they should know the notification procedures to follow in the event of a spill or other incident.
- d. SCWI-8500-0020-ENV, *SSC EICP w/ SPCC Plan* was prepared in accordance with the *National Response Team's Integrated Contingency Plan Guidance* (Federal Register, Pages 28642 – 28664, Volume 61, Number 109, June 5, 1996). It is organized into three main sections: an introductory section, a core plan, and a series of supporting annexes. The core plan includes essential response procedures and outlines a hierarchy of incident response levels. The annexes include more detailed supporting information.
- e. NASA EHSO shall provide for and coordinate all planning and reporting requirements and spill/discharge containment, cleanup, and disposal activities.
- f. SOC Environmental Services shall provide for the planning, equipment, and coordination activities associated with SCWI-8500-0020-ENV, *SSC EICP w/ SPCC Plan*. SOC Environmental Services shall coordinate these activities with the SSC Incident Commander responsible for response activities.

2.7.4 Release Reporting

- a. SSC notification procedures for spills or releases shall be performed in accordance with SCWI-8500-0020-ENV, *SSC Environmental Integrated Contingency Plan with Spill, Prevention, Control, and Countermeasure Plan (EICP w/ SPCC Plan)*. SSC Spill/Release Report (Form SSC-696D) shall be submitted within 3 working days of spill or release discovery.
- b. In all cases the person(s) discovering the release shall immediately contact the SSC Dispatcher by calling **911 or (228) 688-3636, if using a cell phone**.

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- c. The SSC Incident Commander (SSC Fire Chief or designee) shall determine the appropriate classification and response actions and notify NASA EHSO.
- d. Both the CWA and CERCLA include lists of hazardous substances and threshold quantities, as identified in 40 CFR 116-117; 40 CFR 302; and 40 CFR 355. Any release of a listed hazardous substance in a quantity equal to or greater than the threshold quantity shall immediately be reported to the NASA Environmental Officer (or designee).
- e. The NASA Environmental Officer (or designee) shall report releases to the National Response Center (NRC) within 24 hours, in accordance with the requirements of CERCLA. The NRC shall also be notified in the event of a discharge of oil to navigable waters, which creates sheen, results in deposits of sludge beneath the surface or on the shoreline, or violates applicable water quality standards.
- f. All official notifications to regulatory agencies, including the NRC, shall be made by the SSC Environmental Officer or designee.

2.7.5 Specific Requirements

NASA, resident agencies, commercial customers, contractors, and concessionaires shall perform the specific actions outlined in Table 7.

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Table 7 – Required Actions under the Oil Pollution Act and the Clean Water Act

§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.7.2	Notify NASA EHSO prior to constructing or installing storage or transfer facilities for POL products	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	PES to NASA EHSO	As required
2.7.2	Perform inspections of all bulk oil storage and transfer facilities	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	Records maintained onsite and readily available for review; Submit records quarterly to SOC Environmental Services	Inspections per SCWI-8500-0020-ENV, SSC EICP w/ SPCC Plan; Records to be submitted quarterly
2.7.2	Ensure all oil-handling personnel are trained in accordance with 40 CFR 112	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	Records to be maintained by individual organization	At least annually, in accordance with 40 CFR 112
2.7.2	Submit Underground Storage Tank Status Report to MDEQ	NASA EHSO and SOC Environmental Services	Form provided by MDEQ	Annually
2.7.3	Update of the SSC Environmental Integrated Contingency Plan with Spill Prevention, Control, and Countermeasure Plan	NASA EHSO and SOC Environmental Services	Written Plan, per National Response Team Guidance Document & 40 CFR 112/ TechDoc	Within 6 months of a facility change, or as needed

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§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.7.4	Notification immediately upon discovery of a release of a potentially hazardous substance	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	Call 911, or (228) 688-3636 if using a cell phone ; Submit Incident Report Form SSC-696D	As required
2.7.4	Notification of releases to the NRC, as required	NASA Environmental Officer or designee	Verbal notification; Written report, as applicable.	As required, within 24 hours

2.8 Toxic Substances Control

2.8.1 Applicable Laws and Regulations

Requirements of the Toxic Substances Control Act (15 USC § 2601 to 2671); Occupational Safety and Health Act (29 USC § 651 et seq.); 29 CFR 1910; and 40 CFR 700-799 shall be followed in the performance of toxic substances control activities at SSC.

2.8.2 Toxic Substances Control

The Toxic Substances Control Act (TSCA) was enacted to protect human health and the environment by regulating chemicals used in commerce and newly developed chemicals. Under TSCA, the USEPA places controls on chemical manufacture, distribution, use, and disposal. Included in TSCA are a variety of requirements to control the manufacture, distribution in commerce, use, and disposal of specific chemical substances or mixtures. At SSC, TSCA's primary applicability relates to the decontamination and disposal of PCB and/or PCB-contaminated electrical equipment, and the removal and disposal of coatings and other materials that contain PCBs, asbestos or lead.

2.8.3 Polychlorinated Biphenyl Management

- a. The existing inventory of PCB and PCB-contaminated transformers is gradually being reduced through replacement. Some transformers were retrofilled with non-PCB electrical insulating oil but over time PCB levels have increased enough that most of these transformers have had to be reclassified as PCB or PCB-contaminated in compliance with 40 CFR 761.

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- b. In addition to transformers, many of the facility's older fluorescent lighting fixtures contain ballasts that contain PCBs. When these ballasts are removed from service, they shall be replaced with non-PCB ballasts.
- c. Disposal of electrical equipment, including PCB-containing ballasts and, PCB or PCB-contaminated transformers, and/or coatings and other materials containing PCBs shall be coordinated through the Stennis Operating Contractor and collected for disposal in accordance with procedures in SCWI-8500-0004-ENV, *SSC Hazardous Material, Hazardous Waste, and Solid Waste Plan*.

2.8.4 Asbestos Management

- a. Asbestos-containing material (ACM) was used in the past at SSC for fire protection and thermal insulation. SCWI-8500-0019-ENV, *SSC Asbestos Hazard Control Plan* shall serve as the operations and maintenance plan for managing asbestos in place by monitoring and maintaining its condition, ensuring proper cleanup of fibers previously released, and preventing further release.
- b. Ongoing, routine monitoring shall be conducted in buildings 1000, 1100, 1200, 2101 and 2201. Monitoring results have shown that the measured concentration of asbestos in these buildings is less than 0.01 fibers per cubic centimeter (cc).
- c. Other buildings at SSC shall be monitored for air quality on a project-specific basis. The current Occupational Safety and Health Administration (OSHA) standard for asbestos workers is 0.10 fibers/cc.
- d. All activities which could potentially disturb ACM shall be controlled. Submit Asbestos Work Approval (Form SSC-740), to obtain permission to conduct work in areas that might contain ACM.
- e. Operations and maintenance work practices shall be established, including worker health and safety training, and protection, recordkeeping of all documents related to asbestos management, and approval procedures for operations and maintenance activities in areas where ACM may be disturbed.
- f. When renovation, demolition, or deterioration requires the removal of asbestos-containing material or thermal system insulation, a licensed asbestos abatement contractor shall perform the work in accordance with Federal and state regulations.
- g. All removed asbestos shall be disposed of in the onsite non-hazardous solid waste landfill as approved by the MDEQ. MDEQ requires a 10-day advance notification of all building

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demolitions (even if they do not contain asbestos) and all renovations of areas that contain asbestos.

- h. Scrap metal resulting from demolition activities that is assumed to be asbestos-containing shall either be abated prior to recycling as scrap metal, or disposed of in the onsite landfill.

2.8.5 Specific Requirements

NASA, resident agencies, commercial customers, contractors, and concessionaires shall perform the specific actions outlined in Table 8.

Table 8 - Required Actions under the Toxic Substances Control Act

§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.8.3	Notification of a leaking transformer and/or prior to any change in transformer status (use/storage), recycling or disposal	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	Notify SOC Environmental Services	As required
2.8.3	Notification of any activity requiring disposal of coatings and other materials containing PCBs	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	Notify SOC Environmental Services	As required
2.8.3	Notification of PCB Activity	NASA EHSO	USEPA Form 7710-53	As required
2.8.3	Notification immediately upon discovery of a release of oil from an electrical transformer	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	Call 911, or (228) 688-3636 if using a cell phone; Submit Incident Report (Form SSC- 696D)	As required

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§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.8.3	PCB Management Report	NASA EHSO and SOC Environmental Services	Update inventory of PCB transformers	Annually
2.8.4	Request to conduct Asbestos O & M Activity	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	Form SSC- 740 to SOC Industrial Hygiene (IH) Office	As required
2.8.4	Notification prior to performing demolition on any building at SSC	NASA EHSO and SOC Engineering	Form provided by MDEQ	As required
2.8.4	Notification prior to conducting renovations of buildings containing asbestos	NASA EHSO and SOC Engineering	Form provided by MDEQ	As required
2.8.4	Update of the Asbestos Hazard Control Plan	NASA EHSO and SOC IH Office	Written Plan/ TechDoc	As required
2.8.4	Surveillance and monitoring of asbestos-containing material (ACM)	SOC IH Office	Documentation maintained by SOC IH Office	As required
2.8.4	Attend annual awareness briefing for asbestos	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	Documentation of training to be maintained by individual organization	Annually
2.8.4	Training and certification for asbestos-	NASA, SOC, and Certified	Documentation of training to be	Annually

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§	Action/Requirement	Responsible Party	Reporting Method	Frequency
	related work	Contractors	maintained by individual organization	
2.8.4	Routine asbestos monitoring for buildings with spray-applied asbestos	SOC IH Office	Information posted at https://ssccommunity.ssc.nasa.gov/ohs/indust.html	Annually

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2.9 Hazardous Materials Management

2.9.1 Applicable Laws and Regulations

Requirements of the Emergency Planning and Community Right-to-Know Act (42 USC § 11001 to 11050); the Protecting and Securing Chemical Facilities from Terrorist Attacks Act of 2014; Department of Homeland Security Chemical Facility Anti-Terrorism Standards; 6 CFR 27; and 40 CFR 350-372 shall be followed in the performance of hazardous materials management, emergency planning, and community notifications at SSC.

2.9.2 Emergency Planning Action and Community Right-to-Know Act

- a. Authorized by Title III of SARA, the Emergency Planning and Community Right-to-Know Act (EPCRA) establishes requirements for reporting of the storage, use and releases of hazardous substances to Federal, state, and local governments. This information is used by state and local emergency planning organization to prepare their community for potential risks and chemical emergencies.
- b. NASA, resident agencies, commercial customers, contractors, and concessionaires shall maintain a safety data sheet (SDS) for any hazardous chemical stored or used onsite at SSC and shall submit either the SDS for each hazardous chemical maintained in excess of the threshold quantity, or a list of such chemicals and the potential hazards to the State Emergency Response Commission (SERC), Local Emergency Planning Committee (LEPC), and the SSC Fire Department in accordance with EPCRA Section 311. An annual inventory report for the same chemicals must be submitted to the SERC, LEPC and local fire department by March 1 of each year in accordance with EPCRA Section 312.
- c. SSC notification procedures for spills or releases of a listed hazardous substance into the environment shall be performed in accordance with SCWI-8500-0020-ENV, *SSC Environmental Integrated Contingency Plan with Spill, Prevention, Control, and Countermeasure Plan (EICP w/ SPCC Plan)*. SSC Spill/Release Report (Form SSC-696D) shall be submitted within 3 working days of spill or release discovery.
- d. In all cases the person(s) discovering the spill or release shall immediately contact the SSC Dispatcher by calling **911 or (228) 688-3636, if using a cell phone**.

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2.9.3 Chemical Facility Safety and Security

The Chemical Facility Anti-Terrorism Standards (CFATS) regulatory program was initially authorized by Congress through the Department of Homeland Security (DHS) Appropriations Act of 2007. The program uses a dynamic multi-tiered risk assessment process to identify high-risk chemical facilities. Facilities determined to be high-risk are assigned a tier and are required to meet and maintain certain performance-based security standards. The CFATS program was re-codified and authorized by the Protecting and Securing Chemical Facilities from Terrorist Attacks Act of 2014.

2.9.4 Required Reporting

- a. NASA, NASA contractors, resident agencies and commercial customers shall submit an inventory of all hazardous materials maintained onsite to NASA EHSO by January 10th of each year. Hazardous material inventory information is maintained electronically in the SSC Hazardous Materials Inventory System (HMIS).
- b. NASA EHSO shall submit a Tier II report annually for NASA and its contractors to include the maximum quantities of listed chemicals stored on site during the reporting year, if the threshold quantities are exceeded. Resident agencies, commercial customers, concessionaires, and their contractors shall be responsible to submit a Tier II report annually, as applicable.
- c. Additionally, NASA EHSO shall submit a Toxic Release Inventory (TRI) report annually for NASA and NASA contractors if the facility, employee, and chemical thresholds established in EPCRA Section 313 are met and/or exceeded. Resident agencies, commercial customers, concessionaires, and their contractors shall submit a TRI report annually, as applicable.
- d. NASA EHSO shall report toxic chemical releases and the quantities of listed chemicals transferred offsite annually for NASA. NASA contractors, resident agencies, commercial customers, concessionaires shall report separately as applicable. This report is required to provide the public with information on the release of toxic substances to the environment in the reporting year and shall include both routine and accidental releases of listed chemicals if the quantity exceeds the established threshold.
- e. NASA, resident agencies, commercial customers, and concessionaires that possess any chemical of interest (COI) identified in Appendix A to 6 CFR 27 at or above the screening threshold quantity (STQ) shall report their chemical holdings to DHS via a Top Screen. The Top Screen must be submitted within 60 days from the time the organization comes into possession of COI at or above the STQ. An organization identified by DHS as an at-risk facility following its submission of a Top-Screen shall comply with applicable regulations as required to ensure that sufficient security measures are in place.

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2.9.5 Specific Requirements

NASA, resident agencies, commercial customers, contractors, and concessionaires shall perform the specific actions outlined in Table 9.

Table 9 - Required Actions under the Emergency Planning and Community Right-to-Know Act and Chemical Facility Anti-Terrorism Standards

§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.9.4	Chemical Facility Anti-Terrorism Standards Top Screen	NASA and SOC Environmental Services; Resident Agencies, Commercial Customers, and Concessionaires, as applicable	Electronic Format, per DHS requirements	As required, within 60 days of COI at or above STQ
2.9.4	Hazardous Materials Inventory	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	HMIS	Annually, by January 10 th
2.9.4	SARA Tier II Report	NASA EHSO and SOC Environmental Services; Resident Agencies, Commercial Customers, Contractors, and Concessionaires, as applicable	Electronic Format	Annually, by March 1 st as applicable
2.9.4	Toxic Release Inventory Report	NASA EHSO and SOC Environmental Services; Resident Agencies, Commercial Customers, Contractors, and Concessionaires, as applicable	Electronic Format	Annually, by July 31 st as applicable

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2.10 Pesticide/Herbicide Control

2.10.1 Applicable Laws and Regulations

Requirements of the Federal Insecticide, Fungicide, and Rodenticide Act (7 USC § 136 to 136y); Mississippi Department of Agriculture and Commerce, Division of Plant Industry Regulations; and 40 CFR 152-186 shall be followed in the performance of pesticide and herbicide activities at SSC.

2.10.2 Pesticide/Herbicide Management

- a. The use, storage, delivery, and disposal of insecticides and herbicides are regulated by the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). FIFRA outlines registration requirements for pesticide producers, certification requirements for pesticide applicators, and directs the USEPA to set regulations for the acceptance of certain pesticides and recommended procedures for the disposal and storage of pesticides and pesticide containers.
- b. The Stennis Operating Contractor shall be responsible for insecticide and herbicide treatments. Minimal quantities of insecticides and herbicides are stored onsite. The Contractor shall utilize the Integrated Pest Management (IPM) approach, which minimizes chemical application. The Contractor shall dispose of any waste generated at an offsite facility in accordance with Federal and state regulations.
- c. Mixing and/or transfer of pesticides must only be performed by authorized pesticide handlers wearing the personal protective equipment required on the pesticide SDS. Pesticides shall only be transferred or mixed at an approved location, such as a concrete pad, with drains sealed during the mixing/transfer operation, and a backflow preventer installed. The authorized pesticide handler must remain with the operation at all times, to ensure that pesticides are not allowed to overflow the containers.

2.10.3 Specific Requirements

NASA, resident agencies, commercial customers, contractors, and concessionaires shall perform the specific actions outlined in Table 10.

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Table 10 - Required Actions under the Federal Insecticide, Fungicide, and Rodenticide Act

§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.10.2	Notification of any activity which would increase the quantity of pesticides applied or stored onsite	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	PES to NASA EHSO	As required
2.10.2	Ensure that all personnel responsible for applying pesticides and/or herbicides are trained/certified	Resident Agencies, Commercial Customers, Contractors, and Concessionaires, as applicable	Contact NASA EHSO; Training records to be maintained by USACOE	As needed
2.10.2	Pesticide Usage Report	SOC; Resident Agencies, Commercial Customers, Contractors, and Concessionaires, as applicable	SSC Format to NASA EHSO	Annually

2.11 Environmental Noise Control

2.11.1 Applicable Regulations

Requirements of the Noise Control Act (42 USC § 4901 et seq.); and Occupational Safety and Health Act (29 USC § 651 et seq.) shall be followed in the performance of noise control activities at SSC.

2.11.2 Noise and Vibration

- a. Due to the nature of static rocket engine testing, noise and to a lesser extent vibration have always been issues at SSC. NASA uses the land area that makes up the SSC Buffer Zone, approximately 125,000 acres, in order to mitigate the impact of noise on local communities.

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- b. The soils at SSC are generally composed of poorly to somewhat poorly drained silty and loamy soils. Wetness, high organic content and weathered clay mineralogy generally characterizes them. These soils tend to dampen the effects of vibration resulting from engine testing. In fact, years of testing the Saturn V rocket motor, which was considerably more powerful than the engines currently being tested, resulted in no significant adverse effects to buildings.

2.11.3 Background Noise Levels

- a. Noise measurements were recorded at SSC at four locations within the SSC Fee Area in 1974 when no rocket tests were being conducted. Today, background noise levels at SSC are generally low. The effects of the generators, pumps and boilers are minimal because they are contained for the most part within structures. Traffic noise is highest during the morning and evening as employees travel to and from work.
- b. NASA, resident agencies, commercial customers, contractors, and concessionaires shall notify NASA EHSO when their activities are expected to generate noise above OSHA's permissible exposure limit.

2.11.4 Specific Requirements

NASA, resident agencies, commercial customers, contractors, and concessionaires shall perform the specific actions outlined in Table 11.

Table 11 - Required Actions under the Noise Control Act

§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.11.3	Notification if activities will produce noises above OSHA's permissible exposure limit	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	PES to NASA EHSO	As required

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2.12 Radiation Control

2.12.1 Applicable Laws and Regulations

Requirements of the Atomic Energy Act (42 USC § 2021h); and 10 CFR 20 shall be followed in the performance of radiation control activities at SSC.

2.12.2 Radiation Management

- a. The Atomic Energy Act establishes a program of Federal regulation of atomic energy and materials, including source, special nuclear and byproduct materials. The regulation also includes provisions to protect the public from radiation exposure. 10 CFR 20 establishes permissible dose levels and concentrations of radiation, precautionary procedures, and waste disposal procedures.
- b. NASA, resident agencies, commercial customers, contractors, and concessionaires shall maintain compliance with all regulations and applicable SSC Common Work Instructions, SCWI-8700-0004, *Ionizing Radiation Program* and SCWI-8700-0005, *Nonionizing Radiation Program*, governing the procurement, use, and disposal of radioactive materials and ionizing/non-ionizing radiation-producing machines or devices.
- c. NASA EHSO shall be notified whenever a radiation source is added or removed from SSC.

2.12.3 Specific Requirements

NASA, resident agencies, commercial customers, contractors, and concessionaires shall perform the specific actions outlined in Table 12.

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Table 12 - Required Actions under the Atomic Energy Act

§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.12.2	Maintenance of licenses for all radiation sources in each organization	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	Documentation to be maintained by individual organization and SOC Health Physics (HP) personnel	As required
2.12.2	Disposition of radiation sources, including both ionizing and non-ionizing	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	In accordance with SCWI-8700-0004, <i>SSC Ionizing Radiation Program</i> and SCWI-8700-0005, <i>SSC Non-Ionizing Radiation Program</i>	As required
2.12.2	Provide inventory of radiation sources to NASA EHSO and SOC HP personnel	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	SSC format	Quarterly
2.12.2	Maintain site inventory of radiation sources, including both ionizing and non-ionizing	SOC HP personnel	SSC format	As required, or at least annually

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2.13 Historical and Archaeological Resources Management

2.13.1 Applicable Laws and Regulations

Requirements of the National Environmental Policy Act (42 USC § 4371 et seq.); National Historic Preservation Act (16 USC § 470 et seq.); Archaeological Resources Protection Act (16 USC § 470aa to 470mm); Archaeological and Historic Preservation Act (16 USC § 469 to 469c); American Antiquities Act of 1906 (16 USC 431-433); Native American Graves Protection and Repatriation Act (NAGPRA) 1990; 36 CFR 800; 40 CFR 6; Executive Order 11593, *Protection and Enhancement of the Cultural Environment*; and Executive Order 13287, *Preserve America* shall be followed in the performance of historical and archeological resources management activities at SSC.

2.13.2 Historical Resources

- a. The purpose of the National Historic Preservation Act is to ensure that places of historic value are preserved and enhanced. Section 100(a)(2) was amended in 1992 to require Federal agencies establish a historic preservation program for the identification and protection of historic properties under their jurisdiction. In response, NASA EHSO implemented the SSC Historic Preservation Plan (HPP) in 1995. The SSC Integrated Cultural Resources Management Plan (ICRMP) replaced the HPP in 2010 and discusses specific short term and long term management actions required by Federal laws and regulations for the proper protection and stewardship of identified historic properties at SSC.
- b. All excavations and disturbances shall be approved by the NASA Cultural Resources Manager (CRM), previously referred to as the NASA Historic Preservation Officer (HPO).
- c. A Section 106 cultural resources survey shall be completed prior to any surface or subsurface work.
- d. The original Rocket Propulsion Test Stands are the only properties at SSC designated as National Historic Landmarks. The Rocket Propulsion Test Stands, including the A-1 Rocket Propulsion Test Complex (building 4120), the A-2 Rocket Propulsion Test Complex (building 4122), and the B1/B2 Rocket Propulsion Test Complex (building 4220/4221), have been designated because they were used for testing of the Saturn rockets utilized in landing men on the moon. The historic town sites of Gainesville and Logtown, Mississippi are eligible for inclusion on the National Register of Historic Places.
- e. No actions shall be initiated that would alter or modify the above listed historic properties without approval from NASA EHSO. This includes actions that may be considered routine maintenance, such as painting.

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2.13.3 Archaeological Resources

- a. In early 2009 NASA obtained the services of the USACOE to conduct background and field investigations at SSC to update and revise the 2003 Historic Preservation Plan, which resulted in the current ICRMP. An archaeological site probability model test was done on three areas within the SSC Fee Area and the SSC Acoustical Buffer Zone (Bayou La Croix/26.3 hectares [65 acres], Napoleon/26.7 hectares [66 acres], and Landfill area/15.4 hectares [38 acres]). The high probability status of the areas is, in part based on previous research and is predicated on the presence of favorable environmental conditions and/or documentary evidence that indicates past human settlement. Environmental factors generally considered favorable for the presence of archaeological sites is inclusive of close proximity, within 200 meters (0.125 miles) to a viable fresh water source; relatively high, well-drained land forms; and the presence of other sites or other significant cultural features nearby.
- b. The NASA CRM shall coordinate all cultural/historical work for the Center with the Mississippi Historic Preservation Office.

2.13.4 Specific Requirements

NASA, resident agencies, commercial customers, contractors, and concessionaires shall perform the specific actions outlined in Table 13.

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Table 13 - Required Actions Related to Historical and Archaeological Resources

§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.13.2	Notification upon discovery of artifacts or other historically or archaeologically significant objects	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	Verbal report to NASA EHSO or CRM	As required
2.13.2	Prior notification for surface and subsurface work	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	PES to NASA EHSO; Dig Permit and/or Timber Removal Form to NASA EHSO, as applicable	As required
2.13.2	Notification prior to activities that may alter or modify the listed historic properties (Test Stands)	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	PES to NASA EHSO	As required
2.13.2	Report to Mississippi Historic Preservation Officer	NASA EHSO and SOC Environmental Services	Description of activities affecting historic properties and photos (B & W)	Annually
2.13.2	Report to NASA HQ on Historical and Archaeological Activities	NASA CRM	Description of activities affecting historic properties	Annually
2.13.2	Consultation with Mississippi Historic Preservation Office prior to modification of historic properties	NASA CRM	Letters	As required

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2.14 Management of Fish, Wildlife, and Protected Species

2.14.1 Applicable Laws and Regulations

Requirements of the Endangered Species Act (16 USC § 1531 to 1544); Fish and Wildlife Conservation Act (16 USC § 2901 et seq.); Fish and Wildlife Coordination Act (16 USC § 661 to 666c); National Environmental Policy Act (42 USC § 4371 et seq.); 40 CFR 6; 50 CFR 17; 50 CFR 83; 50 CFR 402; and Guidance for Presidential Memorandum on Environmentally & Economically Beneficial Landscape Practices on Federal Landscaping Grounds (Federal Register, Pages 40837 - 40841, Volume 60, Number 154, August 10, 1995) shall be followed in the performance of fish, wildlife, and protected species habitat management activities at SSC.

2.14.2 Fish and Wildlife Conservation

- a. The Fish and Wildlife Conservation Act of 1980 provides assistance to the states for the development and implementation of conservation programs for non-game fish and wildlife. It also mandates that Federal agencies utilize their statutory and administrative authority to conserve and to promote conservation of non-game fish and wildlife and their habitats. The Mississippi Department of Wildlife, Fisheries, and Parks implements conservation programs to manage and protect Mississippi's natural resources.
- b. The Fish and Wildlife Coordination Act (FWCA) was enacted to protect fish and wildlife when Federal actions result in the control or modification of a natural stream or body of water. Specifically, the FWCA requires mitigation actions to protect wildlife resources whenever "the waters of any stream or other body of water are impounded, diverted, the channel deepened, or the stream or other body of water otherwise controlled or modified." Wildlife resources "include birds, fishes, mammals, and all other classes of wild animals and all types of aquatic and land vegetation upon which wildlife is dependent." The FWCA is administered by the Department of Interior through the U.S. Fish and Wildlife Service (USFWS).
- c. NEPA requires similar measures before any project to control or modify any natural body of water. NEPA specifically requires Federal agencies to consult with the USFWS and the appropriate state agency to determine the "measures necessary to mitigate, prevent and compensate for project-related losses of wildlife resources and to enhance the resources." The reports and recommendation of the wildlife agencies must be incorporated into the EA or the EIS.

2.14.3 Preservation of Threatened and Endangered Species

- a. The Endangered Species Act of 1973 (ESA) provides the framework to conserve and protect endangered and threatened species and their habitats. The term "endangered species" applies

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to any species which is in danger of extinction throughout all, or a significant portion of its range. A “threatened species” is any species which is likely to become an endangered species within the foreseeable future throughout all, or a significant portion of its range. The Secretary of Interior makes determinations of threatened or endangered status in conjunction with the Secretary of Commerce.

- b. Section 7 of the ESA requires all Federal agencies to consult with the USFWS on all actions that may affect a threatened or endangered species or its habitat. The rules and requirements for these consultations are delineated in 50 CFR 402, which includes forms, substance, and timing.
- c. Although SSC is not considered by the USFWS to have threatened and/or endangered species, it is possible that such species may be encountered. The site provides a stable habitat that could support several threatened and endangered species.
- d. For this reason, any project or action that has the potential to impact habitat shall exercise caution during construction. NASA EHSO maintains a list of all species of concern, and their Federal and state protection status.
- e. All SSC personnel shall consult with NASA EHSO prior to initiating any project that has the potential to impact threatened, endangered, or otherwise protected species.
- f. All threatened and endangered species shall be considered as protected unless otherwise specified.

2.14.4 Landscape Management

- a. In order to conserve water and energy, reduce waste and decrease runoff, landscape design shall use regionally native plants; design, use, or promote construction practices that minimize adverse effects on the natural habitat; prevent pollution; implement water-efficient practices; and create outdoor demonstrations. To this end, any landscape design shall:
 - 1. Complement existing and planned structures.
 - 2. Emphasize a unified site pattern, help define traffic arteries and create an overall consistent unity in the choice of trees, shrubs, and lawns.
 - 3. Contribute to safety at intersections and crossings.
 - 4. Consider the ultimate in growth, form, size, and color of the plants selected, and the cultural requirements such as moisture, drainage, and maintenance.
 - 5. Reforest for aesthetic and utility considerations.
 - 6. Correlate design with utility lines, storm drains, and sewer systems.
 - 7. Utilize native species.

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- b. Benefits associated with implementation of these design criteria include the reduction in use of water, pesticides, and fertilizers. Also there will be a reduction in maintenance costs, an increase in erosion control, and utilization of hardy plants.
- c. All projects that involve landscape design or have the potential to affect current landscape, wildlife, forested areas, and recreational areas shall be coordinated through NASA EHSO so that potential impacts can be properly assessed. Contact with the NASA Planning and Development Office is also encouraged to ensure that proposed actions comply with the SSC Master Plan. The Master Plan along with the Integrated Natural Resource Management Plan includes various supplementary plans and recommendations for economic development and management of the resources available at SSC. These resources include forestry products, wildlife, recreation, and transportation.

2.14.5 Specific Requirements

NASA, resident agencies, commercial customers, contractors, and concessionaires shall perform the specific actions outlined in Table 14.

Table 14 - Required Actions Related to Fish, Wildlife, and Protected Species

§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.14.2	Notification prior to activities that may alter or modify a stream or other natural body of water	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	PES to NASA EHSO	As required
2.14.2	Consult with USFWS and Mississippi Department of Wildlife, Fisheries, and Parks regarding mitigation actions to protect wildlife	NASA EHSO	Official letter	Prior to projects which would alter waterways
2.14.3	Notification to NASA EHSO upon sighting or otherwise encountering any species that may be threatened or endangered	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	Verbal notification; Official letter, as required	As required, upon sighting
2.14.3	Notification prior to activities that may	NASA, Resident Agencies, Commercial Customers, Contractors,	PES to NASA	As required

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§	Action/Requirement	Responsible Party	Reporting Method	Frequency
	affect protected species or their habitat	and Concessionaires	EHSO	
2.14.3	Consult with USFWS regarding projects which could affect protected species and their habitat (Section 7 consultation)	NASA EHSO	Official letter	Prior to project initiation
2.14.4	Notification regarding the landscaping activities inclusive of the utilization of native plants in accordance with the April 26, 1994, Executive Memorandum.	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	PES to NASA EHSO	As required

2.15 Management of Hazardous Coatings

2.15.1 Applicable Laws and Regulations

Requirements of the Federal Water Pollution Control Act (33 USC § 1251 to 1387); Resource Conservation and Recovery Act (42 USC § 6901 to 6992k); Clean Air Act (42 USC § 7401 to 7671q); Occupational Safety and Health Act (29 USC § 651 et seq.); 29 CFR 1910; 29 CFR 1926.62; 40 CFR 52; 40 CFR 81; and 40 CFR 261 shall be followed in the performance of management of hazardous-coating activities (e.g., lead, hexavalent chromium, and cadmium) at SSC.

2.15.2 Hazardous Coatings

- a. Lead, hexavalent chromium, and/or cadmium-containing paint and paint primers were used at SSC for many years. SCWI-8500-0018-ENV, *SSC Lead and Other Hazardous Coatings Hazard Control Program* provides an operations and maintenance plan for managing these coatings at SSC. This Plan defines a policy of management of hazardous coatings “in place” and shall be followed in the performance of SSC activities. This means that, as long as hazardous coating materials are intact and not posing a health or environmental hazard, they will be maintained “in place.”
- b. If such paints and coatings are damaged, or would be impacted by other work in the area, a strategy shall be developed to repair, remove, and/or replace the hazardous coatings.

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- c. Controls specified in SCWI-8500-0018-ENV, *SSC Lead and Other Hazardous Coatings Hazard Control Program* shall be implemented and are inclusive of maintenance work practices, worker protection measures, medical monitoring and training for workers, record keeping, and waste disposal.
- d. SOC Industrial Hygiene (IH) Office and/or SOC Environmental Services shall monitor design reviews to ensure regulatory requirements are addressed in projects involving hazardous coatings.

2.15.3 Hazardous Coating Waste Disposal

- a. All debris, including scrap metal, generated from operations where hazardous coatings are present shall be sampled and analyzed in accordance with USEPA Method 1311, Toxicity Characteristic Leaching Procedure (TCLP). The results of the TCLP analysis will determine the hazard classification of the material that was sampled and if the concentration is less than the regulatory level for the contaminant, the material may be disposed of in the SSC Class A landfill as non-hazardous waste or recycled, as applicable.
- b. If the TCLP lead, chromium and/or cadmium concentration is equal to or greater than the regulatory level for the contaminant, the material shall be handled and disposed of as hazardous waste. Hazardous waste management procedures may be found in SCWI-8500-0004-ENV, *SSC Hazardous Material, Hazardous Waste, and Solid Waste Plan*.

2.15.4 Specific Requirements

NASA, resident agencies, commercial customers, contractors, and concessionaires shall perform the specific actions outlined in Table 15.

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Table 15 - Required Actions Related to Lead Management

§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.15.2	Notification prior to activities that may impact hazardous coatings	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	PES to NASA EHSO	As required
2.15.2	Request for sampling analysis prior to conducting activities that may impact hazardous coatings	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	Notification (verbal or written) to SOC IH Office	As required
2.15.2	Training for workers involved in hazardous coating activities	SOC Engineering and SOC IH Office	Documentation of training to be maintained by SOC Engineering, SOC IH Office, and/or Contractor	As required
2.15.2	Medical monitoring for workers involved in hazardous coating activities	SSC Medical Director	Medical Records	As required
2.15.2	General awareness training for hazardous coatings	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	Training documentation to be maintained by individual organization	Annually
2.15.3	Request for collection and disposal of hazardous coating-contaminated waste	SOC Engineering and Contractors	Form SSC-696F	As required

2.16 Pollution Prevention and Sustainable Acquisition

2.16.1 Applicable Laws and Regulations

Requirements of the Pollution Prevention Act of 1990 (42 USC § 13101 et seq.); Section 6002 of the Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act (42 USC § 6901 to 6992k); the Federal Acquisition Regulations (FAR), including the USEPA's

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Environmentally Preferable Purchasing Program (FAR Part 23); Guidelines for Designating Biobased Items for Federal Procurement (7 CFR 3201); Comprehensive Procurement Guideline for Products Containing Recovered Materials (40 CFR 247); and Executive Order 13834, *Efficient Federal Operations* shall be followed in the performance of pollution prevention and acquisition activities at SSC.

2.16.2 Pollution Prevention, Waste Minimization, Recycling and Sustainable Acquisition

- a. Pollution prevention is reducing or eliminating waste at the source by modifying production processes, promoting the use of non-toxic or less-toxic substances, implementing conservation techniques, and re-using materials rather than putting them into the waste stream.
- b. SCWI-8500-0017-ENV, *SSC Pollution Prevention Plan* delineates the responsibilities and establishes the procedures relevant to SSC's Pollution Prevention Program. This document shall be followed in the performance of all SSC activities.
- c. Congress established a national policy that requires the generation of hazardous waste to be reduced or eliminated wherever feasible. SSC's waste minimization program is established in SCWI-8500-0004-ENV, *SSC Hazardous Material, Hazardous Waste, and Solid Waste Plan*, which identifies the requirements associated with hazardous product substitution, waste stream segregation, material handling improvement, procurement of environmentally preferred items, and increased recycling activities.
- d. All NASA and NASA Contractor purchases must meet the applicable recycled-content, biobased, or environmentally preferable program requirements, unless a waiver is granted in accordance with SCWI-8500-0003-ENV, *SSC Sustainable Acquisitions Plan*.
- e. Records of all NASA and NASA contractor purchases shall be maintained by SOC Environmental Services and reported in the NASA Environmental Tracking System (NETS).
- f. SSC presently recycles mixed paper, aluminum cans, plastic bottles, toner cartridges, cardboard, batteries, used oil, and scrap metal. Records of the total quantity of materials recycled shall be maintained by SOC Environmental Services and reported in NETS.

2.16.3 Specific Requirements

NASA, resident agencies, commercial customers, contractors, and concessionaires shall perform the specific actions outlined in Table 16.

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Table 16 - Required Actions Related to Pollution Prevention

§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.16.2	Update of the Pollution Prevention Plan	NASA EHSO and SOC Environmental Services	Written Plan/ TechDoc	As required
2.16.2	Submit request for waiver for purchase of non-compliant items	NASA and NASA Contractors	NASA/SSC Sustainable Procurement Request for Waiver (Form SSC-747)	As required
2.16.2	Reporting of Center recycling and sustainable acquisition activities	SOC Environmental Services	Report in NETS for NASA and NASA Contractors	As required by NASA HQ
2.16.2	Recycle all materials for which recycling is available	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	N/A	Daily
2.16.2	Purchase recycled-content, biobased, and/or environmentally preferable program products, as applicable	NASA and NASA Contractors; Resident Agencies, Commercial Customers, and Concessionaires, as applicable	SSC format	Daily
2.16.2	Report quantities of materials recycled	SOC Environmental Services and Contractors	SSC format	Monthly
2.16.2	Maintain records of NASA and NASA contractor purchases and the total quantity of materials recycled	SOC Environmental Services	SSC format	Monthly

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2.17 Energy Management and Conservation

2.17.1 Applicable Laws and Regulations

Requirements of the National Energy Policy Act (42 USC 6374, et seq) as amended, Encouraging the Use of Alternative Fuels; National Energy Conservation Policy Act (42 USC 8251-8259) as amended by the Federal Energy Management Improvement Act of 1988 (Public Law [Pub. L.] 100-615); National Energy Policy Act (42 USC 8287) as amended; Shared Energy Savings; Energy Policy Act (Pub. L. 102-486, 106 Stat. 2776); 10 CFR 435; 10 CFR 436; Energy Policy Act of 2005; Federal Leadership in High Performance and Sustainable Buildings Memorandum of Understanding; Energy Independence and Security Act of 2007; Executive Order 13834, *Efficient Federal Operations*; Executive Order 13221, *Energy Efficient Standby Power Devices*; and NPR 8570.1, *NASA Energy Management Program* shall be followed in the performance energy management and conservation activities at SSC.

2.17.2 General Requirements

- a. All elements of the Federal government are obligated to pursue and support energy conservation measures. NASA, as a direct Federal consumer of energy, has an obligation to establish and pursue a vigorous long-term program of energy conservation.
- b. Therefore, NASA, as a part of its management function at SSC, shall provide the necessary guidance to other agencies in order to institute an effective energy management/conservation program in compliance with our national energy management goals, particularly the Federal Energy Management Improvement Act.
- c. NASA, resident agencies, commercial customers, contractors, and concessionaires shall coordinate with the NASA Energy Program Manager, designated facility managers, and/or the SSC Operations Review Steering Committee in regards to matters related to energy management and conservation.
- d. NASA, resident agencies, commercial customers, contractors, and concessionaires are responsible to ensure effective energy utilization and implementation of energy conservation measures in accordance with the applicable requirements.

2.17.3 Specific Requirements

NASA, resident agencies, commercial customers, contractors, and concessionaires shall perform the specific actions outlined in Table 17.

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Table 17 - Required Actions Related to Energy Management and Conservation

§	Action/Requirement	Responsible Party	Reporting Method	Frequency
2.17.2	Coordinate energy management and conservation efforts with NASA HQ, designated facility managers, and/or the SSC Operations Review Steering Committee	NASA Energy Program Manager through Resident Agencies	Via SSC Operations Review Steering Committee meetings and/or as appropriate	As required
2.17.2	Submission of data to the NASA Energy Program Manager and SOC Energy Specialists	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	SSC format	As required
2.17.2	Energy Surveillance	NASA and NASA Protective Services Contractor	SSC format	As required
2.17.2	Compliance with regulatory requirements	NASA, Resident Agencies, Commercial Customers, Contractors, and Concessionaires	N/A	Daily
2.17.2	Input of Energy Data Calls	NASA Energy Program Manager and SOC Energy Specialists	Report; NETS	Quarterly and Annually

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APPENDIX A - DEFINITIONS

Code of Federal Regulations - The regulations published in the Federal Register by the Executive Departments and agencies for implementation of Federal Congressional Acts.

Concessionaires - Companies that provide services for special amenities that are outside of the general scope of operational requirements, such as banking, snack bar, laundry, and restaurants.

Threatened or Endangered Species - Any species (including subspecies), which is in danger of extinction throughout all or a significant portion of its range.

Executive Order - Presidential orders to agencies of the Executive Branch of the Federal Government that have the weight of law.

Hazardous Waste Management - Systematic control of the collection, source separation, storage, transportation, processing, treatment, recovery, and disposal of hazardous wastes.

Hazardous Waste Sites - A location where hazardous wastes are stored, treated, incinerated, or otherwise disposed.

Listed Species - Any species (including subspecies) of fish, wildlife, or plants listed as either endangered or threatened in accordance with 50 CFR 17.11 and 17.12.

Mississippi Department of Environmental Quality - The environmental regulatory and enforcement authority for the State of Mississippi.

Pesticide - Any substance, organic or inorganic, used to destroy or inhibit the action of plant or animal pests; the term thus includes insecticides, herbicides, rodenticides, miticides, etc.

Pollution - Any substance introduced into the environment (not normally present) that is potentially toxic or otherwise objectionable.

Polychlorinated Biphenyl (PCB) - Any of a class of toxic aromatic compounds, often formed as waste in industrial processes whose molecules contain two benzene rings in which hydrogen atoms have been replaced by chlorine atoms.

Radioactive Material - A material that undergoes spontaneous decay by the emission of energy in the form of ionizing radiation. Radioactive materials are regulated by 10 CFR.

Recycling - Reclaiming a material for purposes of beneficial reuse.

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Resource Conservation and Recovery Act - The Federal Act which governs solid and hazardous wastes.

United States Code (USC) - official compilation and codification of the general and permanent Federal statutes.

United States Environmental Protection Agency (USEPA) - Agency of the Federal Government with environmental protection regulatory and enforcement authority.

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APPENDIX B - ACRONYMS

ACM	Asbestos-Containing Material
CAA	Clean Air Act
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (also known as Superfund)
CFR	Code of Federal Regulations
COI	Chemical of Interest
CRM	Cultural Resources Manager
CWA	Clean Water Act (Federal Water Pollution Control Act)
DHS	Department of Homeland Security
EA	Environmental Assessment
EICP	Environmental Integrated Contingency Plan
EIS	Environmental Impact Statement
EMS	Environmental Management System
ENV	Environmental
EO	Environmental Officer
EPCRA	Emergency Planning and Community Right-to-Know Act
FAR	Federal Acquisition Regulation
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
FWCA	Fish & Wildlife Coordination Act
GHG	Greenhouse Gas
HMIS	Hazardous Materials Inventory System

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HP	Health Physics
HPP	Historic Preservation Plan
ICRMP	Integrated Cultural Resources Management Plan
ID	Identification
IH	Industrial Hygiene
LSC	Laboratory Service Contractor
LTOMP	Long Term Operational and Monitoring Plan
MDEQ	Mississippi Department of Environmental Quality
MSDH	Mississippi Department of Health
NASA	National Aeronautics and Space Administration
NEPA	National Environmental Policy Act
NFA	No Further Action
NPDES	National Pollution Discharge Elimination System
NPR	NASA Procedural Requirements
NRC	National Response Center
NRHP	National Register of Historical Places
PCB	Polychlorinated Biphenyl
PES	Preliminary Environmental Survey
POL	Petroleum, oils, or lubricants
Pub. L.	Public Law
RCRA	Resource Conservation and Recovery Act

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REC	Record of Environmental Consideration
RQ	Reportable Quantity
SARA	Superfund Amendments and Reauthorization Act
SCWI	Stennis Common Work Instruction
SDS	Safety Data Sheet
SDWA	Safe Drinking Water Act
SOC	Stennis Operating Contractor
SPCC	Spill Prevention Control and Countermeasure Plan
SPLN	Stennis Plan
SPR	Stennis Procedural Requirements
SSC	Stennis Space Center
SWI	Stennis Work Instruction
SWPPP	Stormwater Pollution Prevention Plan
TCLP	Toxicity Characteristic Leaching Procedure
TRI	Toxic Release Inventory
TSCA	Toxic Substances Control Act
USACOE	United States Army Corps of Engineers
USC	United States Codes
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service

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APPENDIX C - LAWS AND REGULATIONS

C.1 United States Codes

- a. 7 USC 136, Federal Insecticide, Fungicide, and Rodenticide Act
- b. 42 USC 11001, Emergency Planning and Community Right-to-Know Act
- c. 15 USC 2601, Toxic Substance Control Act
- d. 16 USC 1536, Endangered Species Act of 1973
- e. 16 USC 461, Historic Sites, Buildings and Antiquities Act
- f. 16 USC 469, Archaeological and Historic Preservation Act of 1974
- g. 16 USC 470, National Historic Preservation Act of 1966
- h. 16 USC 1361, Marine Mammal Protection Act
- i. 16 USC 1451, Coastal Zone Management Act of 1972
- j. 16 USC 2901, Fish and Wildlife Conservation Act
- k. 33 USC 401, The Rivers and Harbors Act of 1899
- l. 33 USC 1251, Federal Water Pollution Control Act (Clean Water Act)
- m. 33 USC 1401, Marine Protection, Research, and Sanctuaries Act of 1972, as amended (16 USC 1431)
- n. 42 USC 300f, Safe Drinking Water Act
- o. 42 USC 2021, Atomic Energy Act of 1954
- p. 42 USC 4371, National Environmental Policy Act of 1969 as amended by the Environmental Quality Improvement Act of 1970
- q. 42 USC 4901, Noise Control Act of 1972
- r. 42 USC 6374, National Energy Conservation Policy Act, Encouraging the Use of Alternative Fuels

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- s. 42 USC 6901, Resource Conservation and Recovery Act
- t. 42 USC 7401, Clean Air Act
- u. 42 USC 8251, National Energy Conservation Policy Act, Federal Energy Management Improvement Act of 1988
- v. 42 USC 8287, National Energy Conservation Policy Act, Shared Energy Savings
- w. 41 USC 9601, Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) as amended by Superfund Amendments and Reauthorization Act (SARA)

C.2 Code of Federal Regulations

- a. 6 CFR 27, Chemical Facility Anti-Terrorism Standards
- b. 10 CFR 20, Nuclear Regulatory Standards for Protection Against Radiation
- c. 10 CFR 435, Energy Conservation Voluntary Performance Standards for New Buildings; Mandatory for Federal Buildings
- d. 10 CFR 436, Federal Energy Management and Planning Programs
- e. 14 CFR 1204.15, Intergovernmental Review of NASA programs and activities
- f. 14 CFR 1216, NASA Environmental Quality
- g. 15 CFR 930, Federal Consistency with Approved Coastal Management Programs.
- h. 29 CFR 1910.1200, Toxic and Hazardous Substances
- i. 29 CFR 1910.120, Hazardous Waste Operations and Emergency Response
- j. 33 CFR 322, Permits for Structures of Work In or Affecting Navigable Waters of the United States
- k. 33 CFR 323, Permits for Discharge of Dredged or Fill Material into Waters of the United States
- l. 33 CFR 330, Nationwide Permits
- m. 36 CFR 60, National Register of Historic Places

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- n. 36 CFR 800, Protection of Historic Properties
- o. 40 CFR 50-98, Air Programs
- p. 40 CFR 112, Oil Pollution Prevention
- q. 40 CFR 122.26, Stormwater Discharges
- r. 40 CFR 140-149, Subchapter D, Water Programs
- s. 40 CFR 141, National Primary Drinking Water Regulations
- t. 40 CFR 143, National Secondary Drinking Water Standards
- u. 40 CFR 150-186, Subchapter E, Pesticide Programs
- v. 40 CFR 201-211, Noise Abatement Programs
- w. 40 CFR 230, Section 404(b)(1) Guidelines for Specification of Disposal Sites for Dredged or Fill Material
- x. 40 CFR 240-281, Subchapter I, Solid Wastes
- y. 40 CFR 247, Subpart B, Comprehensive Procurement Guideline for Products Containing Recovered Materials
- z. 40 CFR 261, Listed Hazardous Wastes
- aa. 40 CFR 264, Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities
- bb. 40 CFR 265, Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities
- cc. 40 CFR 266, Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities
- dd. 40 CFR 270, Hazardous Waste Permit Program
- ee. 40 CFR 280, Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks

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- ff. 40 CFR 300, National Oil and Hazardous Substances Pollution Contingency Plan
- gg. 40 CFR 302, Designation, Reportable Quantities and Notification
- hh. 40 CFR 311, Worker Protection
- ii. 40 CFR 350, Trade Secrecy Claims for Emergency Planning and Community Right-to-Know
- jj. 40 CFR 355, Emergency Planning and Notification
- kk. 40 CFR 372, Toxic Chemical Releases
- ll. 40 CFR 700-750, Subchapter R, Toxic Substances Control Act
- mm. 40 CFR 761, Polychlorinated Biphenyls
- nn. 40 CFR 1500-1508, Chapter V, Council on Environmental Quality, NEPA Regulations
- oo. 49 CFR 171-195, Department of Transportation, Hazardous Material Regulations
- pp. 50 CFR 402, Interagency Cooperation, Endangered Species Act of 1973

C.3 Executive Orders

- a. Executive Order 11514, Protection and Enhancement of Environmental Quality
- b. Executive Order 11593, Protection and Enhancement of the Cultural Environment
- c. Executive Order 11988, Floodplain Management
- d. Executive Order 11990, Protection of Wetlands
- e. Executive Order 12114, Environmental Effects Abroad of Major Federal Actions
- f. Executive Order 12372, Intergovernmental Review of Federal Programs
- g. Executive Order 12580, Superfund Implementation
- h. Executive Order 13221, Energy Efficient Standby Power Devices
- i. Executive Order 13287, Preserve America

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j. Executive Order 13834, Efficient Federal Operations

C.4 State Regulations

- a. Mississippi Code Annotated, Title 17, "Mississippi Solid Waste Disposal Act of 1974", and its amendments; Sections 17-17-1 through 17-17-59 and 17-17-213, 17-17-229, 17-17-231, 21-27-207, and 49-17-17
- b. Mississippi Code Annotated, Title 49, "Mississippi Underground Storage Tank Act" and its amendments, Sections 49-17-401 through 49-17-433
- c. Mississippi Administrative Code, Title 11, Part 2, Mississippi Department of Environmental Quality Air Regulations
- d. Mississippi Administrative Code, Title 11, Part 3, Mississippi Department of Environmental Quality Hazardous Waste Management Regulations
- e. Mississippi Administrative Code, Title 11, Part 4, Mississippi Department of Environmental Quality Non-Hazardous Solid Waste Management Regulations
- f. Mississippi Pesticide Application Law of 1975